

CIRCUIT NOTES:

101.

FEATURE OR OPTION	PROVIDE		RATING	FIG.	APP OR WRG	QUANT. PER APPEARANCE	PER BLOCK DIAG.
	IMP	FOR USE WITH					
TESTING POWER SUPPLY JACK CIRCUIT	600 OHMS	241 TYPE PLUG	MD -25	1, 8, 10	D	1	2
			MD -35	1, 8, 10	E	1	2
			0	1, 6, 10		1	1
			-15	1, 8, 10	B	1	2
			MD -25	1, 8, 12	K	1	2
			MD -35	1, 8, 12	M	1	2
			+7	1, 6, 11		1	1
			1			2	
			8	F, P		2	3
			10			1	1
			1			2	
			8	P		1	3
			12			1	1
			1			2	
			8	F, R		2	3
10			1	1			
1			2				
8	R		1	3			
12			1	1			
1			2				
8	F, S		2	3			
10			1	1			
1			2				
8	S		1	3			
12			1	1			
+7	2, 6, 11		1	1			
0	2, 6, 10		1	1			
-15	2, 8, 10	B	1	2			
-16	2, 12		1	1			
MD -25	2, 8, 12	K	1	2			
MD -35	2, 8, 12	M	1	2			
A&M +4	2, 6, 8, 11	H	1	2			
A&M -13	2, 6, 8, 10	A	1	2			
A&M -16	2, 8, 10	F	1	2			
MD -25	2, 8, 10	D	1	2			
MD -35	2, 8, 10	E	1	2			
2			2				
8	F, P		2	3			
10			1	1			
2			2				
8	P		1	3			
12			1	1			
2			2				
8	F, R		2	3			
10			1	1			
2			2				
8	R		1	3			
12			1	1			
2			2				
8	F, S		2	3			
10			1	1			
2			2				
8	S		1	3			
12			1	1			
0	2, 7, 14		1	1			
-15	2, 8, 14	G	1	2			
MD -25	2, 8, 16	N	1	2			
A&M 0	2, 7, 14		1	1			
A&M -15	2, 8, 14	G	1	2			
MD -25	2, 8, 14	J	1	2			
2			2				
8	U, Q		2	3			
14			1	1			
2			2				
8	Q		1	3			
16			1	1			
2			2				
8	U, T		2	3			
14			1	1			
2			2				
8	T		1	3			
16			1	1			
17			1	1			
REP. COIL FOR ISOLATION (SEE NOTE 107)	600 OR 900	ANY OF ABOVE CKTS.				1 OR 2 OR 3	
RECEIVING JACK CIRCUIT	600	FOR USE WITH 241 TYPE PLUGS	3			1	
	900	FOR USE WITH 310 TYPE PLUGS	13			1	
	900	FOR USE WITH 310 TYPE PLUGS	5			1	
SENSITIVITY CONTROL FOR AMP-RECT CKT			9			1	

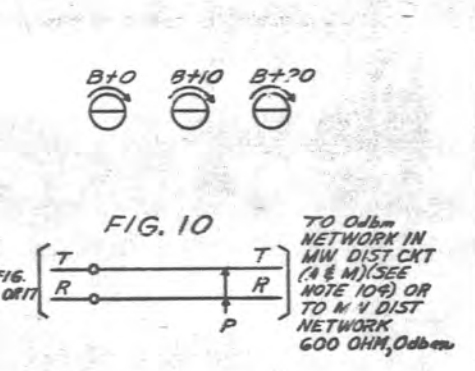
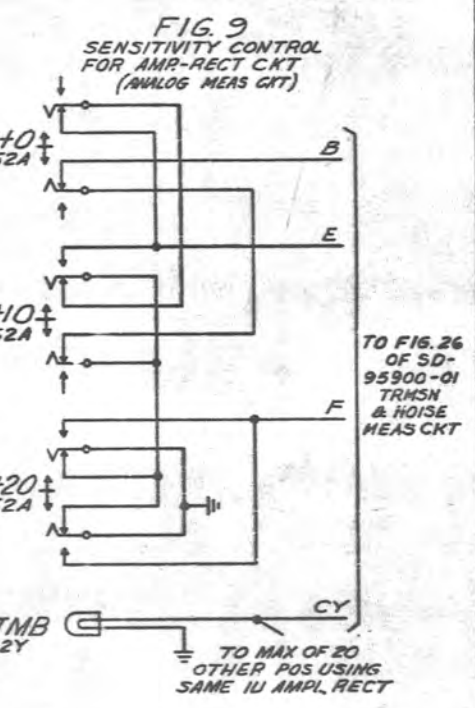
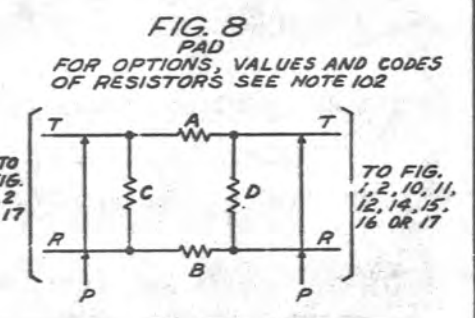
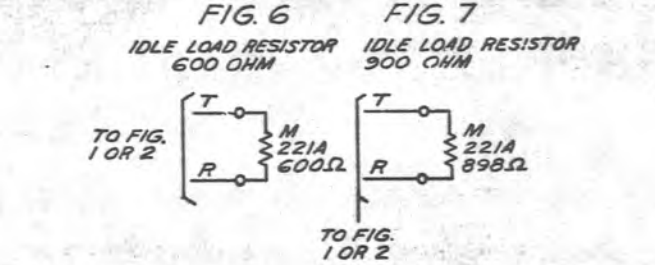
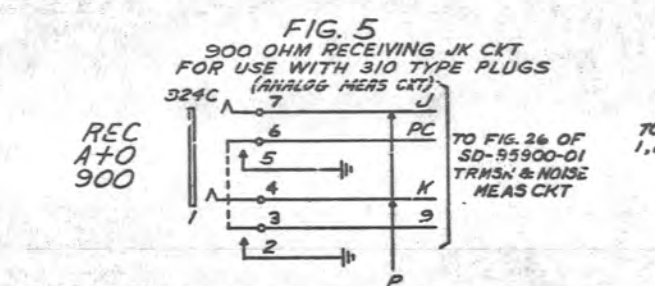
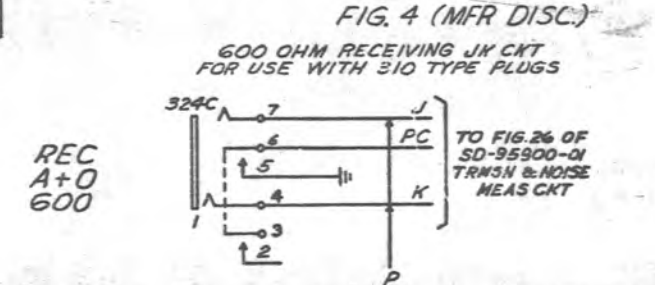
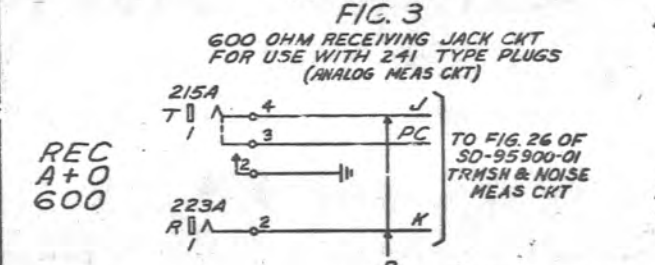
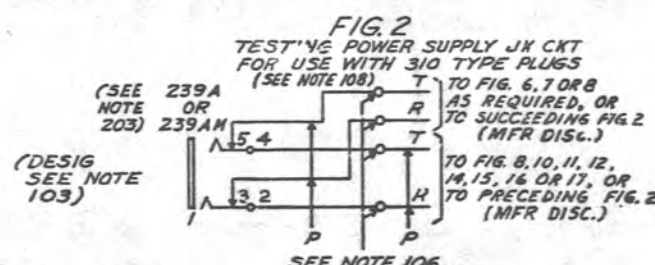
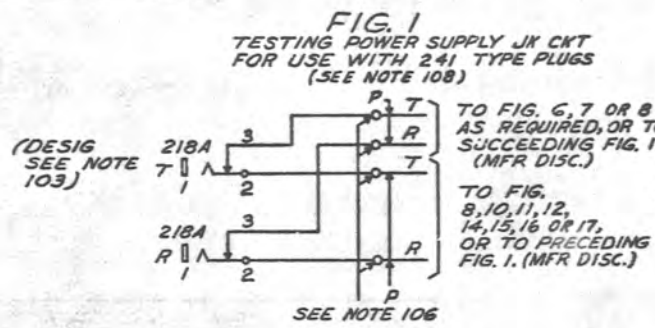
TESTING POWER SUPPLY JACK CIRCUIT  
ONE OUTLET PER MW DIST NETWORK SEE NOTE 108  
(FOR TANDEM OUTLETS SEE NOTE 105) MFR DISC.

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A & M	MD

PAD PER FIG. 8						RATING
LOSS	IMP OHMS	RES (A)&(B)	RES (C)&(D)	OPTION	RES CODE	
15	600	816	856	B		MD
25	600	2670	673	D		MD
35	600	8450	619	E		MD
13	600	634	942	A		MD
16	600	920	925	F		MD
3	600	106	3480	H	221A	MD
9	600	370	1260	K		MD
19	600	1320	750	M		MD
9	900	556	1890	N		MD
15	900	1230	1290	G		MD
16	900	1380	1240	U		MD
25	900	3970	1010	J		MD
9	600	369.5	1260	P		MD
9	900	554.3	1890	Q	106C	MD
10	600	427.0	1155	R	SEE NOTE 301	MD
19	600	1320	751.5	S		MD
19	900	1980	1127.5	T		MD

FIGURES AND OPTIONS ON THIS DWG			
CKT FIG.	APP OR WIRING	A	P
1	J A P		
2	B S		
3	D		
4	E U		
5	F		
6	G		
7	H		
8	J		
9	K		
10	L		
11	N		
12	P		
13	Q		

102. TESTING POWER SUPPLY JACKS PER FIG. 1 AND 2 SHOULD BE DESIGNATED WITH FREQUENCY OR FUNCTION, POWER AND IMPEDANCE.  
FOR EXAMPLE:  
1. (1000) 2. (1000) 3. (CAL)  
(-15) (0) (-16)  
(600) (900) (600)  
FOR TYPICAL JACK LAYOUT (VFPB), SEE FIG. A OF NOTE 202.  
FOR TYPICAL APPLICATIONS SEE BD1, BD2, AND BD3.
103. PRIOR TO ISS 38, CONNECTION OF FIG. 10 TO G dbm GENERATOR OUTLETS DID NOT SPECIFY IMPEDANCE.
104. EACH OUTLET SHOULD BE SUPPLIED FROM A SEPARATE DIST NETWORK, EXCEPT THAT A CAL JACK IS ADDED FOR LEVELS BELOW -16 dbm (SEE FIG. BD3). HOWEVER, IN RARE CASES IF OUTLETS MUST BE FED IN TANDEM FROM A SINGLE DIST NETWORK, THE FOLLOWING MUST BE OBSERVED. THE TANDEM OUTLETS MUST BE IN A SINGLE BAY LINE-UP, AND ADJUSTMENT MUST BE MADE BY MEASURING AT JACK NEAREST CENTER OF TANDEM ARRAY. FURNISH FIGURES AS SPECIFIED IN NOTE 101 PLUS ADDITIONAL FIGS. 1 OR 2 AS REQUIRED, WITH SPECIFIED FIG. 6 OR 7 CONNECTED TO LAST OUTLET JACK. ALL OUTLETS MUST MEET ACCURACY REQUIREMENTS AS GIVEN IN BSP SECTIONS 103-335-500 AND 103-335-512. TO MEET BSP ADJ. REQ, PAIR RESISTANCE BETWEEN 1ST AND LAST OUTLET SHOULD NOT EXCEED 1.4 OHMS IN 600-OHM CKT, OR 2.1 OHMS IN 900-OHM CIRCUIT. SEE THE TABLE OF NOTE 204 FOR EQUIVALENT FOOTAGE OF VARIOUS WIRE GAUGES.
105. TERMINALS ARE OPTIONAL. WHEN REQUIRED, ARE LOCATED IN BAY TERMINAL BLOCK. NUMBERS ASSIGNED BY APPROPRIATE APPLICATION SCHEMATIC. PRIOR TO ISSUE 58, TERMINALS WERE NOT SHOWN IN T OR R LEADS IN FIGS. 1 AND 2.
106. THE REPEAT COIL MAY BE USED WITH ANY ARRANGEMENT WHICH MAY BE USED FREQUENTLY FOR CALIBRATING UNBALANCED TEST EQUIPMENT, I.E., ONE WHICH HAS ONE TERMINAL GROUNDING.
107. EACH OUTLET SHOULD BE SUPPLIED FROM A SEPARATE DIST NETWORK, EXCEPT THAT A CAL JACK IS ADDED FOR LEVELS BELOW -16 dbm (SEE FIG. BD3).
108. THIS FIG. PERMITS A TERMINATED MEASUREMENT ONLY. IT MAY NOT BE USED FOR A BRIDGED MEASUREMENT.



DWG ISSUE	CD ISSUE	DWG CD	DWG CD	DWG CD	DWG CD
1	1	2A	2A	3B	3B
+D	3C	APP 12B	3B	APP 2B	
DWG ISSUE	CD ISSUE	DATE ISSUED	DRW APPR	CHKD	INSP
6B	4B	11-16-66	ZEN	WPD	WPD
7D	4B	7-12-67	WPD	WPD	WPD
8B	4B	4-28-71	CAS	WPD	WPD
9B	4B	9-7-73	DF	WPD	WPD

- ED-63770-31
- ED-97266-(30)
- J99300Y-( )
- J99300H-( )
- J99285L-( )
- J99285K-( )
- J99285J-( )
- J99285H-( )
- J68832L-( ) J98615CH-( )
- J68832J-( ) J98615CG-( )
- J98615F-( ) J98615CF-( )
- J98615E-( ) J98615CE-( )
- J98615D-( ) J98615CD-( )
- J98615B-( ) J98615CB-( )
- J98615A-( ) J98615CA-( )
- ED-97128-30
- EQUIPMENT INFO

PARTIALLY REPLACES SD-59432-01.

SD-95162-02 IN20

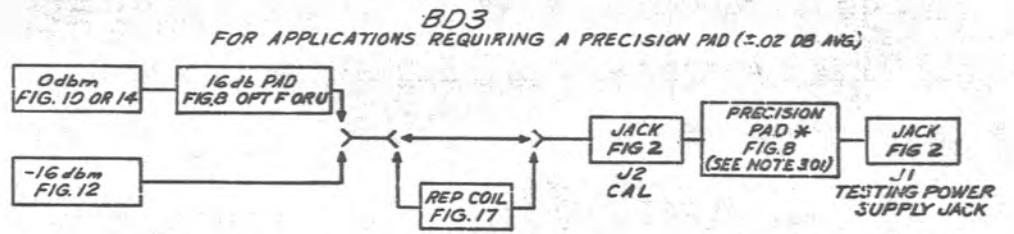
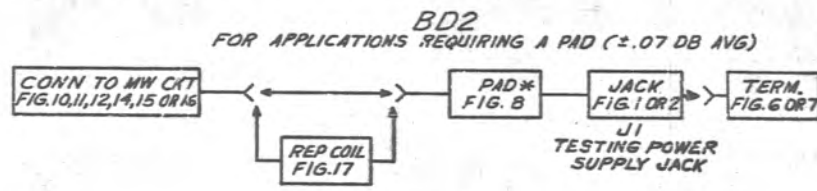
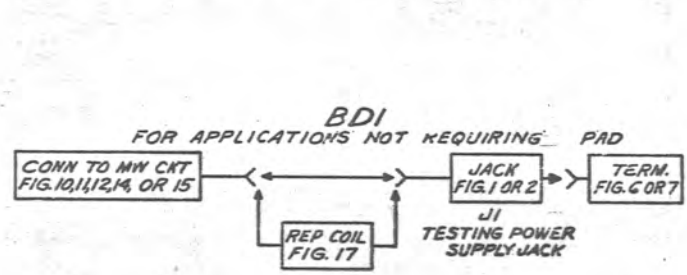
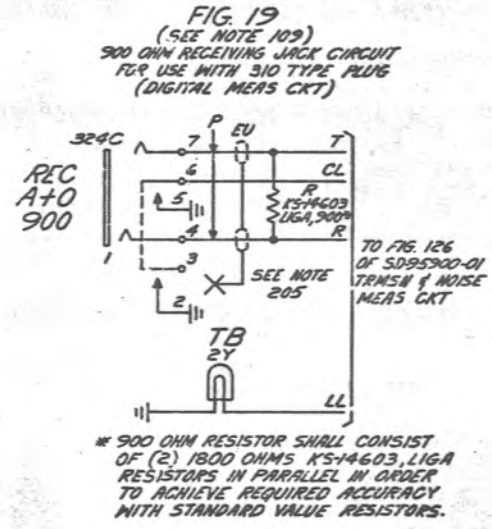
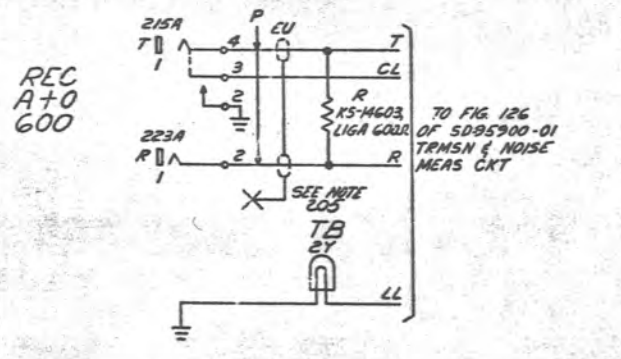
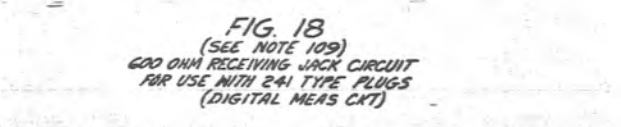
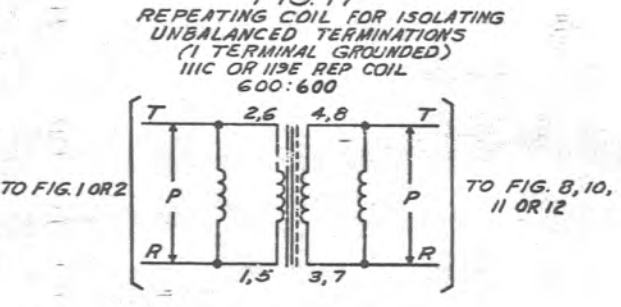
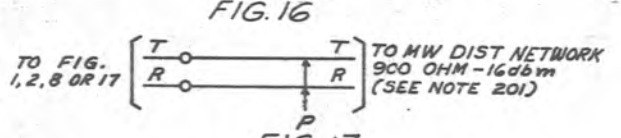
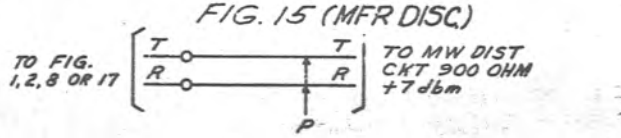
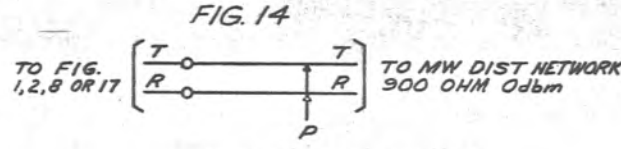
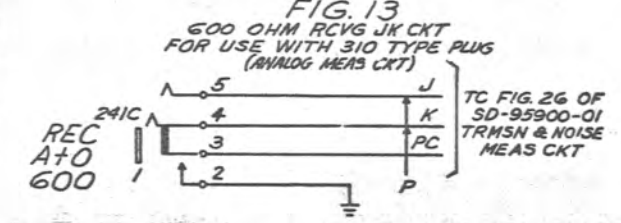
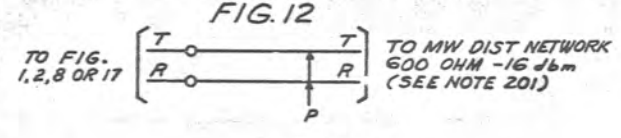
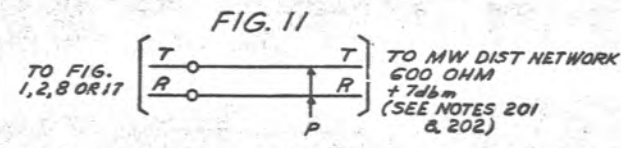
COMMON SYSTEMS TRANSMISSION MEASURING 1000 HZ OUTLETS, RECEIVING JACKS AND CONTROLS

AT & TCO STANDARD

SD-95162-02-1 2 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED





\* PAD TO BE SUPPLIED PER APPROPRIATE OPTION IN NOTE 102

EQUIPMENT NOTES:

- 201. KEEP TESTING POWER SUPPLY JACK OUTLETS ARRANGED IN ORDER OF INCREASING POWER, LEFT TO RIGHT, AND PHYSICALLY SEPARATED FROM EACH OTHER TO AVOID ERROR IN THEIR USE (SEE FIG. A OF NOTE 202).
- 202. DESIGNATION OF +7 dbm OUTLET SHOULD BE STAMPED AGAINST A RED BACKGROUND TO AID IN READY IDENTIFICATION (SEE FIG. A).

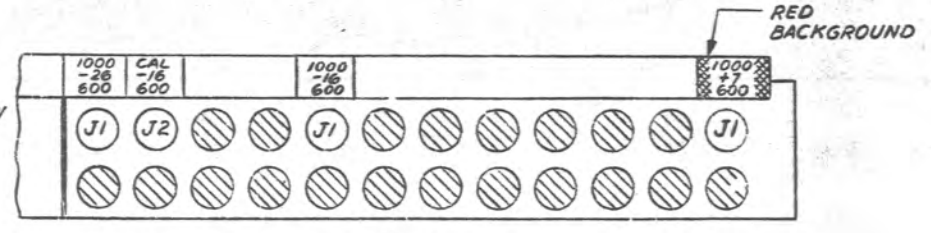


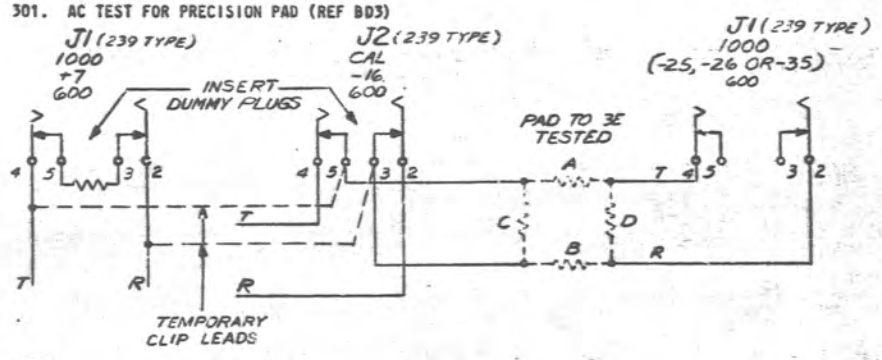
FIG. A  
JACK STRIP LAYOUT (INCREASING POWER, LEFT TO RIGHT) AND DESIGNATIONS FOR MW OUTLETS IN VFP APPLICATION. BLANK SPACES MAY BE EQUIPPED AS REQUIRED, EXCEPT NO ADDITIONAL MW JACKS MAY BE INSTALLED.

- 203. THE 239A JACK HAS SOLDER TERMINALS, THE 239AM JACK HAS WIRE-WRAP TERMINALS. EQUIPMENT INFORMATION SHOULD SPECIFY WHICH TYPE OF JACK IS REQUIRED.
- 204. THE FOLLOWING TABLE SHOWS THE MAXIMUM ALLOWABLE FOOTAGE BETWEEN THE FIRST AND LAST OUTLET JACKS.

WIRE GAUGE	PAIR FT. PER 0.01 db	
	600 Ω CKT	900 Ω CKT
16	175	260
18	110	165
19	85	130
20	70	100
22	40	65
24	25	40
26	15	25

- 205. THE SHIELD IS NOT GROUNDED IN THIS CIRCUIT.

INFORMATION NOTES:



- NOTE:  
TO PREPARE FOR TESTING PADS IN OUTLETS HAVING LEVELS LOWER THAN -16 DBM (MEASURING LIMIT OF 22A MW REF METER), PERFORM FOLLOWING STEPS (STEP 3 MUST PRECEDE STEP 4).
1. INSERT DUMMY PLUG INTO J2(CAL, -16,600) JACK.
  2. INSERT 22A MW REF METER INTO J1(1000, -25 OR -26 OR -35,600) JACK.
  3. TEMPORARILY CONNECT CLIP LEADS FROM PAD SIDE OF J2 JACK (TERMINALS 5 AND 3 OF 239 TYPE JACK) TO INPUT SIDE OF J1(1000, +7,600) JACK (TERMINALS 4 AND 2 OF 239 TYPE JACK).
  4. INSERT DUMMY PLUG INTO J1(1000, +7,600) JACK.
  5. AFTER COMPLETING CHECK, REMOVE PLUGS AND CLIP LEADS IN REVERSE ORDER (STEPS 4,3,2,1).

SD-95162-02-2